

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

David M. LEWIS, et al.

Serial No.: 10/057,232

Filing Date: January 25, 2002

For: SYSTEM AND METHOD FOR  
ASYMMETRIC ROUTING LINES

Examiner: To Be Assigned

Group Art Unit: To Be Assigned

**PROSECUTION BY ASSIGNEE AND POWER OF ATTORNEY  
UNDER 37 C.F.R. § 3.71**

BOX MISSING PARTS  
Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

ALTERA CORPORATION, the assignee of the entire right, title and interest in this patent application, under 37 C.F.R. § 3.71 hereby appoints:

Lisa A. Amii (Reg No. 48,199)	Randolph Ted Apple (Reg No. 36,429)
Mehran Arjomand (Reg No. 48,231)	Laurie A. Axford (Reg No. 35,053)
Sanjay S. Bagade (Reg No. 42,280)	Erwin J. Basinski (Reg No. 34,773)
Shantanu Basu (Reg No. 43,318)	Richard R. Batt (Reg No. 43,485)
Vincent J. Belusko (Reg No. 30,820)	Jonathan Bockman (Reg No. 45,640)
Kimberly A. Bolin (Reg No. 44,546)	Barry E. Bretschneider (Reg No. 28,055)
Tyler S. Brown (Reg No. 36,465)	Nicholas Buffinger (Reg No. 39,124)
A. Randall Camacho (Reg No. 46,595)	Mark R. Carter (Reg No. 39,131)
Robert K. Cerpa (Reg No. 39,933)	Peng Chen (Reg No. 43,543)
Alex Chartove (Reg No. 31,942)	Thomas Chuang (Reg No. 44,616)
Thomas E. Ciotti (Reg No. 21,013)	Cara M. Coburn (Reg No. 46,631)
Matthew M. D'Amore (Reg No. 42,457)	Raj S. Davé (Reg No. 42,465)
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Karen B. Dow (Reg No. 29,684)	Stephen C. Durant (Reg No. 31,506)
Carolyn A. Favorito (Reg No. 39,183)	David L. Fehrman (Reg No. 28,600)
Hector Gallegos (Reg No. 40,614)	Thomas George (Reg No. 45,740)
Deborah S. Gladstein (Reg No. 43,636)	Debra J. Glaister (Reg No. 33,888)

Kenneth R. Glick (Reg No. 28,612)  
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Alan S. Hodes (Reg No. 38,185)  
Kelvan P. Howard (Reg No. P48,999)  
Jill A. Jacobson (Reg No. 40,030)  
Madeline I. Johnston (Reg No. 36,174)  
Ararat Kapouytian (Reg No. 40,044)  
Cameron A. King (Reg No. 41,897)  
Kawai Lau (Reg No. 44,461)  
Rimas T. Lukas (Reg No. 46,451)  
Gladys H. Monroy (Reg No. 32,430)  
Kate H. Murashige (Reg No. 29,959)  
Martin M. Noonon (Reg No. 44,264)  
Phillip Reilly (Reg No. 41,415)  
Debra A. Shetka (Reg No. 33,309)  
Kevin R. Spivak (Reg No. 43,148)  
Thomas L. Treffert (Reg No. P48,279)  
Michael R. Ward (Reg No. 38,651)  
Todd W. Wight (Reg No. 45,218)  
Frank Wu (Reg No. 41,386)  
Peter J. Yim (Reg No. 44,417)  
Karen R. Zachow (Reg No. 46,332)

Bruce D. Grant (Reg No. 47,608)  
Douglas G. Hodder (Reg No. 41,840)  
Charles D. Holland (Reg No. 35,196)  
Peter Hsieh (Reg No. 44,780)  
Wayne Jaeschke, Jr. (Reg No. 38,503)  
Parisa Jorjani (Reg No. 46,813)  
Richard C. Kim (Reg No. 40,046)  
Lawrence B. Kong (Reg No. P49,043)  
Glenn Kubota (Reg No. 44,197)  
Michael J. Mauriel (Reg No. 44,226)  
Philip A. Morin (Reg No. P-45,926)  
Mabel Ng (Reg No. P48,922)  
Catherine M. Polizzi (Reg No. 40,130)  
Robert E. Scheid (Reg. No. 42,126)  
Terri Shieh-Newton (Reg No. 47,081)  
Stanley H. Thompson (Reg No. 45,160)  
Brenda J. Wallach (Reg No. 45,193)  
E. Thomas Wheelock (Reg No. 28,825)  
Eric Witt (Reg No. 44,408)  
David T. Yang (Reg No. 44,415)  
George C. Yu (Reg No. 44,418)

all of Morrison & Foerster LLP, 755 Page Mill Road, Palo Alto, California 94304-1018,  
telephone (650) 813-5600, and also hereby appoints:

Derek E. Miniham (Reg. No. 39,774)

James M. Wu (Reg. No. 45,241)

all of Altera Corporation, 101 Innovation Drive, San Jose, California 95134, to prosecute this application and transact all matters in the United States Patent and Trademark Office connected therewith, said appointment to be to the exclusion of the inventors and their attorneys in accordance with the provisions of 37 C.F.R. § 3.71 provided that if any one of said attorneys or agents ceases being affiliated with the law firm of Morrison & Foerster as partner, employee or of counsel, such attorney's or agent's appointment as attorney or agent and all powers derived therefrom shall terminate on the date such attorney or agent ceases being so affiliated.

Please direct all written communications relative to this application to:

Thomas George  
Morrison & Foerster LLP  
755 Page Mill Road  
Palo Alto, California 94304-1018

Please direct all telephone communications to Thomas George at (650) 813-5722.

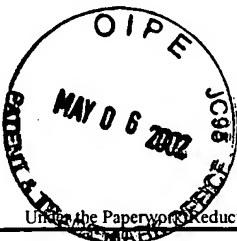
ALTERA CORPORATION  
a Delaware corporation

Dated: 4/26, 2002



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Name: Derek E. Minihane  
Title: Director Patent Counsel  
Address: 101 Innovation Drive  
San Jose, CA 95134



PTO/SB/96 (08-00)

Approved for us through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**STATEMENT UNDER 37 CFR 3.73(b)**

Applicant/Patent Owner: David M. LEWIS, et al.

Application No./Patent No.: 10/057,232

Filed/Issue Date: January 25, 2002

Entitled: SYSTEM AND METHOD FOR ASYMMETRIC ROUTING LINES

Altera Corporation, a corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.  
The extent (by, percentage) of its ownership interest is \_\_\_\_\_%

in the patent application/patent identified above by virtue of either:

- A. [X] An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

- B. [ ] A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

[ ] Additional documents in the chain of title are listed on a supplemental sheet.

- [ ] Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

4/26/02  
\_\_\_\_\_  
Date

Derek E. Miniham  
\_\_\_\_\_  
(signer)  
Signature  
\_\_\_\_\_  
Director Patent Counsel  
Title

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Attorney Docket No.: 306812002500

pa-660836

ASSIGNMENT  
JOINT

COPY

THIS ASSIGNMENT, by David M. LEWIS, Vaughn BETZ, Paul LEVENTIS, Michael CHAN, Cameron R. MCCLINTOCK, Andy L. LEE, Christopher F. LANE, Srinivas T. REDDY, and Richard CLIFF (hereinafter referred to as the assignors), residing at 188 Howland Avenue, Toronto, Ontario M5R 3B6, 233 Riverside Drive, Toronto, Ontario, 14 Luscombe Avenue, Toronto, Ontario M4B 3B6, 1 Chester Le Boulevard, Suite #15, Scarborough, Ontario M1W 2M7, 279 Walker Drive, Mountain View, California 94043, 1227 Briarleaf Circle, San Jose, California 95131, 3133 Stevens Court, San Jose, California 95148, 2289 Camellia Court, Fremont, California 94539, and 6 Middlebury Lane, Los Altos, California 94022, respectively, witnesseth:

WHEREAS, said assignors have invented certain new and useful improvements in SYSTEM AND METHOD FOR ASYMMETRIC ROUTING LINES, set forth in an application for Letters Patent of the United States, bearing Serial No. 10/057,232 and filed on January 25, 2002; and

WHEREAS, ALTERA CORPORATION, a corporation duly organized under and pursuant to the laws of Delaware and having its principal place of business at 101 Innovation Drive, San Jose, California 95134 (hereinafter referred to as the assignee ALTERA CORPORATION) is desirous of acquiring the entire right, title and interest in and to said inventions and said application for Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon:

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, said assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto said assignee ALTERA CORPORATION, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions, application for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations and continuations-in-part of said application, or reissues or extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said assignee ALTERA CORPORATION, for its own use and the use of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the assignors, had this sale and assignment not been made.

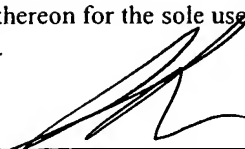
AND for the same consideration, said assignors hereby covenant and agree to and with said assignee ALTERA CORPORATION its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said assignors are the sole and lawful owners of the entire right, title and interest in and to said inventions and the application for Letters Patent above-mentioned, and that the same are unencumbered and that said assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee ALTERA CORPORATION, its successors, legal representatives and assigns, that said assignors will, whenever counsel of said assignee ALTERA CORPORATION, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said inventions in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said inventions, without charge to said assignee ALTERA CORPORATION, its successors, legal representatives and assigns, but at the cost and expense of said assignee ALTERA CORPORATION, its successors, legal representatives and assigns.

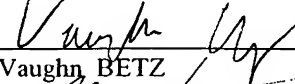
AND said assignors hereby request the Commissioner of Patents to issue said Letters Patent of the United States to said assignee ALTERA CORPORATION as the assignee ALTERA CORPORATION of said inventions and the

Letters Patent to be issued thereon for the sole use of said assignee ALTERA CORPORATION, its successors, legal representatives and assigns.

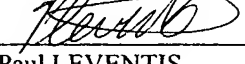
Apr 23/02  
Date

  
David M. LEWIS

April 23, 02  
Date

  
Vaughn BETZ


April 24/02  
Date

  
Paul LEVENTIS

April 24/02  
Date

  
Michael CHAN


3-27-02  
Date

  
Cameron R. MCCLINTOCK


3/26/02  
Date

  
Andy L. LEE

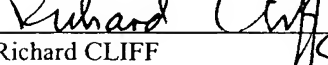
3/26/02  
Date

  
Christopher F. LANE

3/27/02  
Date

  
Srinivas T. REDDY

3/28/02  
Date

  
Richard CLIFF